

Response
Application No. 10/581,268
Attorney Docket No. 042530A

LISTING OF THE CLAIMS

1-26. (Cancelled)

27. (Previously Presented) A liquid composition application system, comprising:

- i. a topological device comprising a single global position system (GPS) for acquiring topological information of a rail system based upon sampling of data from the single GPS in real-time, the topological information comprising, speed, heading, altitude, change in speed, change in direction, change in elevation or orientation of a rail car in the rail system, or a combination thereof;
- ii. an applicator for application of the liquid composition; and
- iii. a processing device for receiving the topological information, and controlling the application of the liquid composition, wherein control of the application of the liquid composition is based on the topological information received by the processing device and wherein the processing device is accessed remotely at a site separate from a train consist in the rail system.

28. (Previously Presented) The liquid composition application system of claim 27, wherein the applicator comprises:

- i. one or more than one reservoir for holding the liquid composition;
- ii. a pipe connected to the one or more than one reservoir;

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iii. one or more than one dispensing nozzle; and
iv. a pump, in fluid communication with the pipe, for moving the liquid composition from the one or more than one reservoir to the one or more than one dispensing nozzle.

29. (Previously Presented) The liquid composition application system of claim 28, wherein the processing device comprises a controller for controlling operation of the pump.

30. (Previously Presented) The liquid composition application system of 29, wherein the controller is selected from the group consisting of a programmable logic controller, a microprocessor and a computer.

31. (Previously Presented) The liquid composition application system of claim 28, wherein the processing device comprises a metering device for controlling operation of the pump.

32. (Previously Presented) The liquid composition application system of claim 28, further comprising a source of pressurized air connected to the one or more than one dispensing nozzle to dispense the liquid composition as an atomized spray.

33. (Cancelled)

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34. (Previously Presented) The liquid composition application system of claim 27, wherein the processing device comprises one or more than one electronic component selected from the group consisting of a microprocessor, a programmable logic controller, a computer, and a combination thereof.

35. (Previously Presented) The liquid composition application system of claim 34, wherein the one or more than one electronic component has an operator-actuated interface.

36. (Previously Presented) The liquid composition application system of claim 27, wherein the topological information received by the processing device for controlling the application of the liquid composition is selected from the group consisting of orientation speed, change in direction, or change in elevation of the rail car, or a combination thereof.

37. (Previously Presented) The liquid composition application system of claim 27, wherein the topological information acquired by the GPS and received by the processing device is selected from the group consisting of latitude, longitude, speed, heading, altitude, and a combination thereof.

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38. (Previously Presented) The liquid composition application system of claim 27, wherein the GPS provides the processing device with topological information regarding speed of the rail car in the rail system to control a rate of application of the liquid composition.

39. (Previously Presented) The liquid composition application system of claim 27, wherein the GPS provides the processing device with topological information regarding changes in position of the rail car in the rail system to determine whether or not the rail car is negotiating a curved portion of a rail track in the rail system and the processing device controls application of the liquid composition accordingly.

40. (Previously Presented) The liquid composition application system of claim 27, wherein the GPS provides the processing device with topological information regarding changes in elevation of the rail car in the rail system to determine whether or not the rail car is negotiating an inclining or declining segment of a rail track in the rail system and the processing device controls application of the liquid composition accordingly.

41. (Previously Presented) A method of applying a liquid composition in a rail system using the liquid composition application system of claim 27.

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42. (Previously Presented) A method of applying a liquid composition in a rail system comprising:

- i. providing the liquid composition application system of claim 27;
- ii. acquiring topological information of the rail system in real-time using the GPS;
- iii. processing the topological information remotely at a site separate from the train consist in the rail system and controlling application of the liquid composition using the processing device, wherein control of the application of the liquid composition is based on the topological information received by the processing device.

43. (Previously Presented) The liquid composition application system of claim 27, wherein the processing device is configured to execute operational instructions received from the site separate from a train consist in the rail system.

44. (Previously Presented) The liquid composition application system of claim 43, wherein the operational instructions direct the processing device to control the application of the liquid composition.